CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No.: CQCE/BBMP/CR/17/2021-2022 Date:14.04.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore

Sample : :Cement (Birla Super 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: :March-2021
Date of Testing 12.04.2021 to 14.04.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.50%	-

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 14.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Date of Testing 14.04.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	116	11.60	19.80	80.2	75-100
1.18	179	17.90	37.70	62.3	55-90
600 Micron	205	20.50	58.20	41.8	35-59
300 Micron	184	18.40	76.60	23.4	8-30
150 Micron	154	15.40	92.00	8.0	0-10

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 14.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Date of Testing 14.04.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	212	1.41	1.41	98.59	95-100
20	8466	56.44	57.85	42.15	30-70
10	3165	21.10	78.95	21.05	10-35
4.75	2659	17.73	96.68	3.32	0-5

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Job No: CQCE/BBMP/CR/17/2021-2022 Date 14.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Date of Testing 14.04.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	212	4.2	4.2	95.8	95-100
10	2863	57.3	61.5	38.5	25-55
4.75	1855	37.1	98.6	1.4	0-10

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date : 14.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Date of Testing : 14.04.2021
Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	21	2.10	2.10	97.9	95-100
2.36	20	2.00	4.10	95.9	95-100
1.18	21	2.10	6.20	93.8	90-100
600 Micron	79	7.90	14.10	85.9	80-100
300 Micron	241	24.10	38.20	61.8	20-65
150 Micron	512	51.20	89.40	10.6	0-15

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date : 14.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Date of Testing : 14.04.2021
Material : Masonry Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	36	3.60	5.10	94.9	70-100
600 Micron	85	8.50	13.60	86.4	40-100
300 Micron	251	25.10	38.70	61.3	5-70
150 Micron	489	48.90	87.60	12.4	0-15

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 14.04.2021

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**: Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	:	**: Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work	:	Providing Asphalt works at Selected reaches in ward no 17 Phase-02,
Sample Identification	:	10mm Fe 500 TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	14.04.2021

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	10	0.619	521	599	25

Remarks:

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date : 14.04.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the Work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Date of Testing : 14.04.2021
Size of Blocks : 400mm x 150mm x 200mm
Cross Sectional Area : 60000 mm^2
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	23.6	219.9	3.67	1966.67	Minimum required Compressive Strength of Individual Units 3.5N/mm^2
2	Block 2	24.1	216.6	3.61	2008.33	
3	Block 3	24.9	232.2	3.87	2075.00	
4	Block 4	22.8	242.2	4.04	1900.00	

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 06.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2021	06.05.2021	8.069	385.5	17.13
2	29.04.2021	06.05.2021	8.021	365.5	16.24
3	29.04.2021	06.05.2021	8.078	372.2	16.54

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 07.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.04.2021	07.05.2021	8.055	364.5	16.20
2	30.04.2021	07.05.2021	8.075	359.9	16.00
3	30.04.2021	07.05.2021	8.096	360.2	16.01

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 27.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2021	27.05.2021	8.154	525.5	23.36
2	29.04.2021	27.05.2021	8.075	516.5	22.96
3	29.04.2021	27.05.2021	8.096	509.1	22.63

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 28.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	**: Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.04.2021	28.05.2021	8.144	501.2	22.28
2	30.04.2021	28.05.2021	8.085	519.9	23.11
3	30.04.2021	28.05.2021	8.096	503.3	22.37

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e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No:- CQCE/BBMP/CR/17/2021-2022

Date: 22.04.2021

KERB STONE (CORE) TEST REPORT

Client	:	**: Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	:	**: Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work	:	Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	22.04.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.352	2240.90	1.60	0.957	25.60	13.04	14.08	13.47	16.84
2	50.00	80.00	0.363	2310.93	1.60	0.957	26.90	13.70	14.80	14.16	17.70
3	50.00	80.00	0.357	2272.73	1.60	0.957	27.10	13.80	14.91	14.26	17.83

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30days from the date of testing.

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 03.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	03.05.2021	8.154	263.3	11.70
2	26.04.2021	03.05.2021	8.096	250.1	11.12
3	26.04.2021	03.05.2021	8.026	249.9	11.11

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date: 03.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work Providing Asphalt works at Selected reaches in ward no 17 Phase-02, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	03.05.2021	8.006	259.9	11.55
2	26.04.2021	03.05.2021	8.154	263.3	11.70
3	26.04.2021	03.05.2021	8.078	240.1	10.67

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